

**AMENDMENTS TO THE CLAIMS**

The present listing of claims replaces all prior versions and listings of claims in the subject patent application.

Claim 1 (currently amended): A method for storing data on a plurality of disk drives comprising:

addressing a plurality of data strips from said data to a chosen disk of said plurality of disk drives such that the throughput of each of said plurality of disk drives is maximized;

forming a data stream comprising said data strips, said data stream having a first throughput;

creating a plurality of parallel data streams, each of said plurality of parallel data streams having an ~~approximately~~ equal second throughput, said second throughput being smaller than said first throughput;

directing said plurality of parallel data streams to a corresponding plurality of said plurality of disk drives such that each data strip in said plurality of data strips is transmitted to said chosen disk of said plurality of disk drives; and

storing each of said data strips on said each of plurality of disk drives.

Claim 2 (previously presented): The method of claim 1 wherein the number of said plurality of parallel data streams is equal to the integer closest to said first throughput divided by said second throughput.

Claim 3 (original): The method of claim 2 wherein said number of said plurality of parallel data streams is 2.

Claim 4 (original): the method of claim 2 wherein said number of said plurality of parallel data streams in 4.

Claim 5 (original): The method of claim 1 wherein at least one of said data strips comprises parity information.

Claim 6 (original): The method of claim 1 wherein said creating a plurality of parallel data streams is performed by a first-in-first-out buffer.

Claim 7 (original): The method of claim 1 wherein said directing said plurality of parallel data streams is performed by a crossbar switch.

Claim 8 (previously presented): The method of claim 1 further comprising:

reading said each of said data strips from said plurality of disk drives; and  
transmitting said each of said data strips from said plurality of disk drives  
in said plurality of parallel data streams.

Claim 9 (currently amended): A system for storing data comprising:

a plurality of disk drives each having a communication channel capable of  
communicating at a first throughput;

a controller adapted to address a plurality of data strips from said data to a  
chosen disk of said plurality of disk drives such that the throughput of each of  
said plurality of disk drives is maximized, and form a data stream comprising said  
data strips, said data stream having an approximately equal, second throughput;

a buffered switch in communication with said controller and adapted to  
create a plurality of parallel data streams, each of said plurality of parallel data  
streams having said first throughput, said first throughput being smaller than said  
second throughput;

a crossbar switch in communication with said buffered switch and adapted  
to direct said plurality of parallel data streams to a corresponding plurality of said  
plurality of disk drives such that each of said separate data strips are transmitted  
to each of said plurality of disk drives to which said separate data strips are  
addressed; and

wherein said plurality of disk drives are adapted to receive said plurality of  
parallel data streams and store said data strips on said disk drives.

Claim 10 (previously presented): The system of claim 9 wherein the number of said  
plurality of parallel data streams is equal to the integer closest to said second  
throughput divided by said first throughput.

Claim 11 (original): The system of claim 10 wherein said number of said plurality of  
parallel data streams is 2.

Claim 12 (original): the system of claim 10 wherein said number of said plurality of  
parallel data streams is 4.

Claim 13 (original): The system of claim 9 wherein at least one of said data strips  
comprises parity information.

Claim 14 (currently amended): A system for storing data comprising:

a plurality of storage means each having a communication channel capable of communicating at a first throughput;

a controlling means adapted to determine a first data stripe to store onto said plurality of disk drives, said data stripe containing a separate data strip addressed to each of said plurality of disk drives such that the throughput of each of said plurality of disk drives is maximized, and adapted to provide a first data stream having an approximately equal, second throughput and containing said data strips;

a buffer means in communication with said controlling means and adapted to receive said first data stream, said buffer means having a first-in-first-out buffer into which said first data stream is received at said second throughput, said buffer means further adapted to remove said data strips from said first-in-first-out buffer to create a plurality of parallel data streams, each of said plurality of parallel data streams having said first throughput, said first throughput being smaller than said second throughput;

a switch means in communication with said buffer means and adapted to direct said plurality of parallel data streams to a corresponding plurality of said plurality of disk drives such that each of said separate data strips are transmitted to each of said plurality of disk drives to which said separate data strips are addressed; and

wherein said storage means are adapted to receive said plurality of data streams and store said data strips on said storage means.

Claim 15 (previously presented): The system of claim 14 wherein the number of said plurality of parallel data streams is equal to the integer closest to said second throughput divided by said first throughput.

Claim 16 (original): The system of claim 15 wherein said number of said plurality of parallel data streams is 2.

Claim 17 (original)): The system of claim 15 wherein said number of said plurality of parallel data streams is 4.

Claim 18 (original): The system of claim 14 wherein at least one of said data strips comprises parity information.